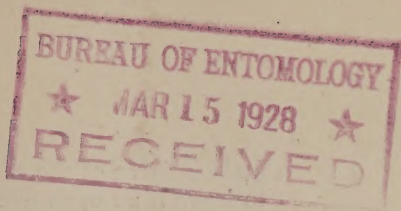


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PROCEEDINGS
OF THE
PACIFIC COAST ENTOMOLOGICAL SOCIETY

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No. 6

ONE HUNDRED AND FIFTH MEETING

The one hundred and fifth or Annual Meeting of the Society was held on the evening of September 11, 1926, in Room 10, State Agricultural Department, Ferry Building, San Francisco.

President Van Dyke in the chair. Minutes of the two preceding meetings were read and approved.

Thirteen members were present, as follows: E. C. Van Dyke, R. W. Doane, E. P. Van Duzee, Mrs. E. P. Van Duzee, H. H. Keiffer, John F. Curry, George R. Wilson, Miss Helen Sanford, Mrs. F. E. Blaisdell, E. O. Essig, J. O. Martin, Eric Walther and F. E. Blaisdell, Sr.

Mr. Richard E. Blackwelder of Stanford University and Mr. Ralph Barrett of the University of California were the only visitors present.

Being the Annual Meeting, the following committee on nomination of officers for the ensuing year were named: Chairman, E. P. Van Duzee; E. O. Essig and H. H. Keiffer.

Under unfinished business the President called upon the committee appointed at the meeting held February 27, 1926, to report on the matter of holding the meetings of the Society on a regular date. Mr. Martin, chairman of the committee, stated that the opinion of the committee was that the meetings be held later, having the date as near the first of September, December, March and June as possible, that is on the Saturday evening preceding or following those dates, Saturday evening being the most convenient time for all. After some discussion by the members it was so ordered.

Under new business President Van Dyke urged the members of the Society to get new members. Stating that the Society needed younger members who would later shoulder the responsibilities of the Society.

The matter of the Society's affiliation with the Pacific Division of the A. A. A. S. was next discussed. President Van Dyke was in favor of the Society's withdrawing from the Pacific Division, as their meetings conflicted with the vacations and trips of the members, unless the time of meeting of the Pacific Division be changed. The last meeting of the Society with the Pacific Division was very poorly attended. Better to withdraw than to

make a farce of the meeting. After discussion it was thought best to leave it an open question for future consideration.

Professor Essig thought the Executive Committee could take the matter up. Mr. Van Duzee said that the Society sent two delegates to the meeting of the Affiliation Committee each year and which is held in January. He thought that that would be the best time to bring the matter up for the committee to act on.

The business of the Society being completed, the reports of the different members regarding their summer's work was in order.

Mr. Keiffer being called upon, stated that he had collected microlepidoptera, in order to build up the Academy's collection in that group; also, to work up the life histories of the species wherever possible.

Mr. Ralph Barrett told of his work at Saticoy, Ventura County, having been assistant in the Codling Moth control on walnuts.

Mr. Van Duzee reported his work at the Academy, stating also that he had spent two weeks in Lake County collecting with his brother and Doctor Nast. Many things were added to the Academy's collection.

Professor Essig said that during July, 1926, that he was given the problem of starting a collection of insects for the new Yosemite Museum and described what he did in the way of collecting and naming of the insects that were collected. He hoped that the members, should they visit the Yosemite, try and add something to the collection; either by depositing specimens or correcting names where wrongly given and to aid in determining the species as well.

Mr. Walthers spoke about the mites which infest the pines. Mr. Wilson said that he had not taken a trip, but visited some alfalfa fields in Nevada during June and collected a number of insects.

Mr. Martin told of his trip to the White Mountains on either border of the northern part of Owens Lake Valley.

Doctor Van Dyke reported his trip to the Rocky Mountain Region.

Doctor Blaisdell stated that he had not tried to do much collecting, having spent his vacation with his son at Santa Paula, Ventura County. While there, however, he had taken up a problem as to the coleopterous fauna of a town lot where a lawn, fruit trees and flowers were planted. The method was by sifting the leaf-mould, dead grass and leaves, also the soil in the lawn about the grass. He was surprised at the number of species that were found. The small and minute species of the following families were taken: Carabidæ, few; Staphylinidæ, many; Ptiliidæ, many; Anthicidæ, few; Nitidulidæ, few; Cucujidæ, an occasional specimen; Cryptophadæ, several; Lathridiidæ, many;

Coccinellidæ, *Scymnus*, one only. The specimens have not been mounted and studied, but would report fuller results some time in the future.

Doctor Blaisdell exhibited a specimen of *Platymus agilis* Lec. The only known specimen was taken at Vallecitos, San Diego County, in 1853 by LeConte. It has been a lost species since then, until Mr. George Field of San Diego took a small series in the Laguna Mountains of San Diego County. Doctor Van Dyke made some remarks on the species.

Mr. Van Duzee said that the Society should have a section on exhibits, such as the Societies in the East have. Notes on the exhibits should be a feature of interest and profit.

Doctor Van Dyke discussed the financial condition of the Journal, the Pan-Pacific Entomologist. The second volume being completed and all bills paid up. He then called for the report of the committee on nomination of officers for the ensuing year. The committee reported as follows: President, Dr. E. C. Van Dyke, of the University of California; Vice-President, Professor G. F. Ferris, of Stanford University; Secretary-Treasurer, J. O. Martin, of the California Academy of Sciences. In response to the desire of the members as regards election, it was moved and seconded that the election be declared unanimous. So carried.

After some discussion the members disbanded.

F. E. BLAISDELL, Secretary.

ONE HUNDRED AND SIXTH MEETING

The one hundred and sixth meeting of the Society was held Saturday evening, December 3, 1926, in Room 10, State Agricultural Department, Ferry Building, San Francisco.

President E. C. Van Dyke in the chair. Minutes of the last meeting were read and approved.

Seventeen members were present, as follows: President E. C. Van Dyke, Mrs. E. C. Van Dyke, Dr. F. E. Blaisdell, Mrs. F. E. Blaisdell, Professor E. O. Essig, Professor G. F. Ferris, Mr. E. P. Van Duzee, Mr. J. C. Chamberlin, Mr. Carl D. Duncan, Mr. A. C. Davis, Mr. C. L. Fox, Mr. H. H. Keiffer, Mr. E. R. Leach, Mr. F. S. Stickney, Mr. Eric Walther, Mr. George R. Wilson and J. O. Martin, Secretary.

Visitors present were Mrs. A. C. Davis and Miss Helen A. Eddy of Berkeley, Mr. Robert W. Burgess and Mr. Harold R. Brisley of the University of California, and Mr. S. E. Myers of Stanford University.

The report of the Treasurer was next read.

Under communications a letter from the Secretary of the Pacific Division of the American Association for the Advancement of Science was read, giving notice of the Annual meeting at Reno, Nevada, June 22-25, 1927. Also a meeting of the Affiliation Committee of which formal notice will be given later. Doctor Van Dyke appointed Professor E. O. Essig and Mr. E. P. Van Duzee to represent the Society at that meeting.

The business of the Society being concluded, the regular program was then taken up as follows:

Mr. Charles L. Fox read an account of his recent visit to England and exhibited pictures on cards of British butterflies and several views of the British Museum, which he visited.

Mr. F. S. Stickney then gave a talk on the suppression of the mesothoracic spiracles in certain stages of the date-palm scale and their subsequent reappearance in later stages. He also exhibited drawings which illustrated a similar condition with regard to certain pores in the scale, *Halimococcus thebaica* Hall.

Doctor Van Dyke spoke next on some of the insects of the more primitive groups which are peculiar to California, or at least to the region west of the Rocky Mountains.

Mr. Van Duzee gave an account of some genera of the Hemiptera which, while not peculiar to the state, reach their highest development in California or on the Pacific Coast.

Professor Essig then gave a talk on some of the introduced species which are related to agriculture. He called attention to the fact, that the California Indians had no agriculture and that all of the crop plants of the states were introduced. So also were

the pests; as the San Jose scale *Phylloxera*, Woolly Apple aphid, Cottony Cushion scale and others.

Professor Essig referred also to the Date Palm scale and inquired of Mr. Stickney as to the condition of this scale in Africa and Arabia. In reply, Mr. Stickney said that in some parts of those countries it was very bad, while in others it caused very little trouble. Professor Essig also mentioned the Purple scale and the Red scale, from the Indo China region, also the Black scale ascribed to Africa which is doubtful. He remarked that California was a good collecting ground for the scales of the World.

Professor Ferris, discussing the scale insects, stated that there were two genera peculiar to California, one found on the Monterey Cypress, the other on the Black Oak. The one on the Black Oak lives under the bark and its presence is only disclosed by a long, silvery thread, made up of wax secretions and which serves as an excretory tube. A curious form is found on the leaves of the Sycamore, taking the form of a pill without legs or antennae, though in later stages it has both. He also discussed other forms of scales and aphids and odd forms of parasitic Diptera.

Doctor Blaisdell followed with some remarks of Coleoptera of the families of the Melyridae and Tenebrionidae.

Mr. A. Davis contributed some remarks on the genus *Stenopelmatus*, stating that while not a strictly California group, they were distinctly Western, ranging as far east as Colorado and south to Guatemala. They probably came to us through South America from Australia. The genus *Acmaeodera*, he stated, reaches its highest development on the Pacific Coast, and particularly in Southern California. During the last few years there was considerable variation in the species *jocosa* owing to the drought. The genus *Pleocoma*, Mr. Davis, stated, was distinctly a California genus, consisting of eleven species, each confined to its own limited locality; owing to the apterous condition of the females.

Doctor Blaisdell remarked that he was interesting school children in the collecting of *Pleocoma*.

In regard to the genus *Heterius*, Mr. Martin said that of the thirteen described species of the United States, ten were from California, making this state the point of highest development of the genus.

With regard to the Micro-Lepidoptera, Mr. Keiffer stated that he finds nothing peculiar to California. He described the life history of a *Gracillera* on oak and said that some *Micros* were

leaf miners, some skeletonizers and still others were intermediates. Various points of distribution were also discussed.

Mr. Duncan gave a few remarks on the wasps of the genus *Vespa*, stating that in California we have two of the three subgenera into which the genus has been divided.

Mr. Chamberlin discussed the Pseudoscorpions and related some interesting facts concerning their life histories.

The meeting was then adjourned.

J. O. MARTIN, Secretary.

ONE HUNDRED AND SEVENTH MEETING

The one hundred and seventh meeting of the Society was held Saturday evening, March 5, in Room 10, State Agricultural Department, Ferry Building, San Francisco, Cal.

President E. C. Van Dyke in the chair. Minutes of the last meeting read and approved.

Thirteen members were present, as follows: President E. C. Van Dyke, Professor E. O. Essig, Professor G. F. Ferris, Dr. and Mrs. F. E. Blaisdell, Mr. E. P. Van Duzee, Miss Helen Sanford, Mr. A. Davis, Mr. George R. Wilson, Mr. Grant Wallace, Mr. C. L. Fox, Mr. Hartford Keiffer and J. O. Martin, Secretary.

Visitors present were Mrs. G. V. Wallace, Mr. Walter Lamertz, Mr. R. E. Barret and Mr. Percy F. Wright.

Under regular business, President Van Dyke took up the discussion of the next Annual Field Meeting of the Society, stating that Miss Alice Eastwood had extended an invitation to the Society to hold this meeting at her place on the slopes of Mt. Tamalpais and called for expression of opinion from the members present as to accepting Miss Eastwood's invitation. Mr. Van Duzee and Doctor Blaisdell both spoke in approval of acceptance and after discussion as to the date by various other members it was so decided. Professor Essig then moved the appointment of a committee of two to arrange a date for the meeting. The motion was seconded and carried and President Van Dyke appointed Mr. Hartford Keiffer and Mr. A. Davis to arrange this date.

The meeting of the Society with the Pacific Division of the American Association for the Advancement of Science at Reno, Nevada, was then considered, and as Mr. Van Duzee was the only member present who expressed intention to be present at that meeting, Doctor Van Dyke appointed him a committee of one to arrange at his discretion for the Society's representation, either separately or in conjunction with the Economic Entomologists.

Discussion was then taken up of a proposal to reduce the price of the first three volumes of *The Pan-Pacific Entomologist* from six to five dollars; the idea being that new subscribers would be attracted. The ensuing discussion being unfavorable it was decided unanimously in the negative.

Mr. Van Duzee then read a notice of the death of our fellow member, Mr. J. C. Huguenin and the following sketch of his life and work:

Mr. Julius Caesar Huguenin was born at Chaux-de-Fonds, Switzerland, December 20, 1840, where he received his education. Chaux-de-Fonds has long been known for its watch industries, where perhaps the best of the famous Swiss watches are made. Mr. Huguenin began his apprenticeship at this trade in his sixteenth year and in time became an expert. He loved his work,

and to him it was a work of art. About 1872 he left Switzerland for America, coming first to Philadelphia and soon to Omaha, and then to San Francisco, where he opened a shop of his own at 413 Kearny Street. On April 7, 1877, he was married in San Francisco to Miss Pauline Montandon, who survives him. Had he lived a little longer they would have celebrated their Golden Wedding next month.

Mr. Huguenin was always a nature lover, and found his relaxation in trips into the country. For many years his chief interest was in the birds, and for some years after reaching this country he collected birds, accumulating a considerable collection of museum specimens, and from time to time sent specimens back to the Natural History Museum in his native town of Chaux-de-Fonds, where they were highly prized. Mr. Huguenin's interest in entomology began with the formation of a collection of the butterflies of this vicinity. This soon brought him into contact with our local entomologists, and he became a regular attendant at the meetings of the California Entomology Club and a member at its second meeting, on November 15, 1901, and finally led to his becoming interested in other orders of insects. In 1891 Mr. and Mrs. Huguenin took a trip to Europe, primarily to visit his early home at Chaux-de-Fonds, taking with them a box containing the bird skins he had accumulated. These he presented to the museum of his native town as supplemental to the specimens previously sent by him.

Mr. Huguenin's entire collection, together with his home and business, was destroyed by the earthquake and fire of 1906. Like many others, Mr. Huguenin was left temporarily stranded after the fire. He removed to East Oakland for two months. Returning to San Francisco, he opened a shop and residence on Church Street while he was rebuilding his home at 1810 Fifteenth Street, San Francisco, where he resided until his death last December. Only a year ago Mr. Huguenin gave to the Academy of Sciences all the insects, excepting the butterflies, that he had accumulated since the fire.

Mr. Huguenin was a member of the Swiss Society of San Francisco. His kind and genial nature endeared him to all who knew him and made him a host of friends. Although 86 years of age at the time of his death, he was active almost to the last. Only about a year ago he visited Mr. Van Duzee at our week-end cottage at Mill Valley and took an hour's trip with me on the hills after butterflies, taking seven species. Marin County was his favorite tramping ground and there were few portions of the county where he had not been in quest of butterflies. But most of all, he liked the country about Taylorville and Bear Valley, to both of which places he often went.

Died December 7, 1926.

The following were proposed for membership in the Society by

Doctor Van Dyke: Mr. Walter E. Lammertz, Mr. Percy F. Wright and Mr. R. E. Barret. The proposal was seconded and they were unanimously voted as members.

Doctor Blaisdell gave an account of the genus *Usechus*, which he has just revised. This Tenebrionid genus was, he stated, peculiar to the Pacific Coast. He also exhibited specimens of the species of the genus, including two new ones.

Professor Essig requested data and photographs of Pacific Coast Entomologists, announcing that he had in preparation a book on the development of Pacific Coast Entomology. He gave as an illustration of the difficulty in getting data, the work he had already done on the history of the introduction of the honey-bee into California.

Professor Ferris spoke of the work of Mr. Meyers (one of his students), on the parasitism of swallows by a species of *Cimex*. He stated that an actual count disclosed 1330 individuals in a single swallow's nest. He thought that the actual number present would be over 2000, as many eggs and smaller individuals were probably overlooked. He disapproved the extreme generic division of some authors, which often reduced the generic group to a single species.

Mr. A. Davis made some observations on the inhabitants of the nests of *Neotoma* or wood-rats.

He was followed by Mr. R. E. Barret, who remarked that this was the best time to collect *Aphodius neotomæ* and *Aphodius sparsus*, both species found only in the nests of the wood-rat.

Doctor Van Dyke stated that he had received a report of numbers of *Aphodius rugifrons* being found near the entrance burrows of ground squirrels; both he and Doctor Blaisdell thought it doubtful that they had any relation to the squirrels. Mr. Davis said that he had found them in his yard in Pasadena under stones and other shelter far removed from any squirrel nests.

President Van Dyke then discussed the genus *Carabus* and its related genera *Damaster* and *Coprolabris*. The genus *Carabus*, he said, probably had its origin in Eastern Asia, spreading westward into Europe and through Siberia to North America. One peculiar genus had been found in Chile. He exhibited two boxes of these interesting beetles.

The meeting then adjourned.

J. O. MARTIN, Secretary.

ONE HUNDRED AND EIGHTH MEETING

The one hundred and eighth annual field meeting of the Pacific Coast Entomological Society was held on April 16, 1927, at the country place of Miss Alice Eastwood on the slopes of Mt. Tamalpais at Mill Valley, California. Twenty-four members and friends were present as follows: Mr. Richard Blackwelder, Dr. and Mrs. F. E. Blaisdell, Professor Lawrence Bruner, Mr. Burgess, Miss Alice Eastwood, Mr. C. L. Fox, Dr. and Mrs. J. F. Killeen, Mr. Gorton Lindsey, Mr. Leinertz, Miss Helen Sanford, Mr. F. J. Spruyt, Mr. Leslie Smith, Mr. George Telbury, Mr. Lewis Telbury, Mr. Robert Usinger, Mr. and Mrs. E. P. Van Duzee, Dr. and Mrs. E. C. Van Dyke, Mr. Lloyd Van Tassell, Mr. Eric Walther and Mr. F. H. Wymore.

The forenoon was spent in collecting about Miss Eastwood's grove and on the chaparral-covered slopes of Mt. Tamalpais near by, and the afternoon in informal discussion. After a vote of thanks to our hostess for a most delightful day's outing, the members dispersed.

E. P. VAN DUZEE, Secretary pro tem.

ONE HUNDRED AND NINTH MEETING

The annual affiliation meeting of the Pacific Coast Entomological Society was held June 21, 1927, at 2 p. m., in room 104, Agricultural Hall, University of Nevada, Reno, Nevada, thirty-seven members and visitors being present. These included the following: Roy E. Campbell, A. W. Morrill, Frank R. Cole, R. W. Doane, C. W. Woodworth, E. P. Van Duzee and S. B. Freeborn, members, and G. Dallas Hanna, J. A. Hyslop, S. E. Flanders, R. W. Harned, W. H. Volck, Mr. and Mrs. Charles K. Fisher, A. J. Fleebut, Cecil W. Creel, Frank B. Herbert, George N. List, Mrs. E. S. Thudichum and Mrs. C. W. Woodworth.

In the absence of the regular officers of the Society, Professor C. W. Woodworth took the chair and Mr. E. P. Van Duzee acted as secretary pro tem. As there was no business to come before the meeting Dr. G. Dallas Hanna opened with an interesting talk on his experiences in Alaska, especially in relation to the collection of insects in the Pribilof Islands. He spoke of the great numbers of mosquitoes encountered everywhere on the tundra lands of Alaska, and discounted the current opinion that the female mosquito requires the blood of the higher animals for the proper development of her eggs. He also called attention to the fact that no butterflies were known to inhabit the Pribilof Islands and expressed the belief that the reported occurrence of one or two species there was due to an error of observation or in the earlier records. He had seen but one species of bumblebee on the Pribilofs, but a second species had recently been taken there by Mr. George Haley. There was one species of the larger Carabidae (*Carabus truncaticollis* Fischer) that was fairly common. Diptera were most abundant in species and individuals, but there were many small parasitic Hymenoptera and a few Neuropteroid insects and moths, but no Orthoptera. The subject of mosquitoes was discussed by Doctor Freeborn, Mr. Churchill and others, and Professor Woodworth told of his experience in combating mosquitoes in the city of Nanking, China.

Dr. F. R. Cole followed with a talk on the remarkable dipterous genus *Diopsis* and other stack-eyed flies and exhibited drawings showing some of these aberrant insects. He also told of his life in Florida and of some of the insects he had taken there.

Professor Hyslop called attention to the three species of *Pyrophorus*, a genus of luminous Elateridae, that enter the United States from the south.

Mr. Van Duzee spoke of his experiences in collecting insects in Florida in 1908, calling attention to the three distinct faunas found there, the West Indian, invading the state from the south, the Mexican, which has come in along the Gulf Coast, and the Carolinian, having its center of distribution in northern Georgia

and western South Carolina. There also seems to be a native Floridian fauna or group of species that has developed in Florida and southern Georgia. Mr. Van Duzee also spoke of a visit he recently made Mr. C. F. MacGlashan of Truckee, California, from whom he had learned some interesting facts regarding the work of some of the earlier Californian entomologists in the Sierra. Among these he mentioned Henry Edwards, Bethune and Albert Koebele. He also recalled a visit from Dr. William Barnes of Decatur, Illinois, which led to the establishment of the "Butterfly Farm" by his daughter, Xemina MacGlashan.

These talks were followed by a general discussion until time for adjournment.

E. P. VAN DUZEE, Secretary pro tem.